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NO. 7709 P. 3

JUL 0 5 2007

Application No.: 10/525675

Docket No.: AD6925USPCT

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Amendments to the Claims

1. (Currently amended) A fluorine-containing ethylene graft copolymer composition comprising: the grafted copolymer that is the product of the reaction between an ethylene copolymer selected from the group consisting of ethylene glycidyl acrylate copolymers and ethylene glycidyl methacrylate copolymers ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing grafting agent carboxylic acid selected from the group consisting of fluorinated carboxylic acids, perfluorinated carboxylic acids and perfluoro polyether carboxylic acids of the formula

 CF_3 -[$CF(CF_3)$ - CF_2 -O-]_n CF_2CO_2H ,

where n is an integer from about 5 to about 50.

- 2. (Currently amended) A fluorine-containing ethylene <u>graft</u> copolymer composition <u>of claim 1 comprising</u>: the product of the reaction between an ethylene/glycidyl-(meth)acrylate copolymer and a perfluorinated carboxylic acid, characterized in that the <u>grafted</u> copolymer absorbs light in the region of from about 1750 cm⁻¹ to about 1800 cm⁻¹ of the infra red absorption spectrum.
- 3. (Currently amended) A blend comprising at least two thermoplastic materials wherein at least one is a fluorine-containing ethylene graft copolymer composition of claim 1 comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylio acid.
- 4. (Currently amended) A blend comprising at least two thermoplastic materials wherein at least one is a fluorine-containing ethylene graft copolymer composition of claim 2 comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate-copolymer and a fluorine-containing carboxylic acid, characterized in that the copolymer absorbs light in the region of from about 1750-cm⁻¹ to about 1800 cm⁻⁴ of the infra-red absorption-spectrum.
- (Currently amended) An article having a surface with a total surface energy of less than 25 dyne/cm comprising: a fluorine-containing ethylene graft copolymer composition of claim 1 comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorinecentaining carboxylic acid.

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- 6. (Currently amended) An article having a surface with a total surface energy of less than 25 dyne/cm comprising: a fluorine-containing ethylene graft copolymer composition of claim 2 comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate-copolymer and a fluorine-containing carboxylic acid, characterized in that the copolymer absorbs light in the region of from about 1750 cm⁻¹ to about 1800 cm⁻¹ of the infra-red absorption spectrum.
- 7. (Currently amended) A stain-resistant fiber comprising a fluorine-containing ethylene graft copolymer composition of claim 1 comprising the product of the reaction between an ethylene/glycidyl-(meth)acrylate copolymer and a fluorine containing-carboxylic acid.
- 8. (Currently amended) A stain-resistant fiber comprising a fluorine-containing ethylene graft copolymer composition of claim 2 comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine containing carboxylic acid, characterized in that the copolymer absorbs light in the region of from about 1750 cm⁻¹ to about 1800 cm⁻¹ of the Infra red absorption spectrum.
- 9. (Currently amended) An article formed by injection molding or by extrusion comprising a fluorine-containing ethylene graft copolymer of claim 1 composition comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine containing carboxylic acid.
- 10. (Currently amended) An article formed by injection molding or by extrusion comprising a fluorine-containing ethylene graft copolymer composition of claim 2 comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid, characterized in that the copolymer-absorbs light in the region of from about 1750 cm⁻¹ to about 1800 cm⁻¹ of the infra-red-absorption spectrum.
- 11. (Currently amended) A mold release additive comprising a fluorine-containing ethylene <u>graft</u> copolymer composition <u>of claim 1</u> comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate copolymer and a fluorine-containing carboxylic acid.

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- 12. (Currently amended) A mold release additive comprising a fluorine-containing ethylene graft copolymer composition of claim 2 comprising the product of the reaction between an ethylene/glycidyl (meth)acrylate-copolymer and a fluorine-containing carboxylic acid, characterized in that the copolymer absorbs light in the region of from about 1750 cm⁻¹-to about 1800 cm⁻¹ of the infra red absorption spectrum.
- 13. (New) A fluorine-containing ethylene graft copolymer composition of claim 1 wherein the ethylene copolymer comprises copolymerized units of i) ethylene, ii) a second monomer selected from the group consisting of glycidyl acrylate and glycidyl methacrylate and iii) a third monomer selected from the group consisting of esters of unsaturated carboxylic acids having from 3 to 12 carbon atoms and vinyl acetate.
- 14, (New) A composition of claim 13 wherein said third monomer is an ester selected from the group consisting of acrylic acid esters and methacrylic acid esters.
- 15. (New) A composition of claim 13 wherein said third monomer is vinyl acetate.
- 16. (New) A composition of Claim 1 wherein said fluorine-containing perfluoro polyether carboxylic acid is an acid of the formula

CF₃-[CF(CF₃)-CF₂-O-]₀CF₂CO₂H₁

where n is an integer from 12 to 26.